Integration Work Sheet (IWS)

IW	/s [SP a	ttached	Ti	itle:		
		F	PART I ADI	MINISTRATIVE INF	ORMATION (comp	leted by RI)	
	anagement Chain dividual (AI), name of AI					managers between the R	I and Authorizing
Lo	cation Facility	/ Room(s) FPO	С	ES&H Team	Intended Start Date: Est. Completion Date:	or to be determined
	nployees (E) & Guests <u>me</u>	(G) assigne	ed to this ac E or G	tivity: Employee #	<u>Name</u>	E or (G Employee #
			Part II	SCOPE OF WORK	· SP (complete	ed by RI)	
Sa	Scope of work attache afety Plan (SP)—Is to New SP needed—attach	d here a current	t SP (SP form	or OSP or FSP) coverin	ng this work? □ Yes-a	cientific basis) and the use of ttach# ES&H Manual Doc 2.2 App.	
	this IWS for Chemical Hygi						
*Do	oes this apply to all location	is? ∐ Yes	∐ No *If	No, list locations it does	s not apply to:		
	P	ART III HA	ZARDS/EN	VIRONMENTAL AS	SPECTS & CONTRO	ous (completed by R	<i>I)</i>
На	zards/Environmental /						
						binant DNA, exposure to sewaplants	age) Sharps/ needles
	/irritants Reactive mat	erials (e.g., ai Pesticides	ir/water sensiti	ve; pyrophoric; thermall Materials of special co	ly, shock, or friction sen	oxic, toxic, systemic toxin, toxi sitive; perchlorate)	gens, mutagens,
	(deactivated alarms, inter- equipment ☐ Moving/lifti thermal cutting ☐ Stored	lock bypass) ing large or he I potential ene I Roof acce	☐ Drilling ☐ eavy items (incergy ☐ Sharp ess ☐ Steep o	Working on contaminat luding use of cranes/ho edges/ shears Pulle	ted equipment Servi pists, powered lift) Meys, belts, gears, pinch	on Asbestos removal Sce, maintenance, or modificati achine tools/powder-actuated points Walking/working on ng, grading, and disposal	on of de-energized tools Welding, soldering, irregular surfaces
		e materials us	sed) 🗌 Solve	nts, adhesives, coatings		ource regulated by Air District Dotential to emit other air	
		retention tank	k, percolation	oits Categorical prod		c system	
		cal) 🥯 🔲 Wo	ork in area des	ignated as having cultu		plain, natural habitats, wetland ources ☐ Work in area desig	
		urces of elect	rical power) 🗀	Energized electrical e	quipment (work on expo	ectrical power source (>140 V osed, energized electrical equi V)	
	Emergencies/Earthquak ☐ Spill/Release of hazard					afety issues	fety issues
	Explosives/Firearms Other explosives/firear		nigh explosives	s, propellants, pyrotechi	nic or similar energetic r	material Mock explosive	Firearms
	Pressure/Noise/Hazardo	ous Atmosphosig liquid ≥10 onfined space	00 kJ stored er s/ oxygen defi	ergy 🔲 Pressure system	ems containing hazardo	quid, <100 kJ stored energy [ous fluids □ Vacuum systems s	
* F	or optional Team Indus	strial Hygien	ist use only.	Not integrated into e	-IWS system at this	time	

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Integration Work Sheet (IWS)

	PART III HAZARDS/ENVIRONMENTAL ASPECTS & CONTI	ROLS (continued)
	Radiation- Ionizing/Non-Ionizing ☐ Radioactive material (encapsulated, non-encapsulated) Manual Doc 20.6 ☐ Radiation-generating devices (RGD) (accelerator, x-ray machine, e-beam, hig ☐ Non-ionizing radiation— class 3a — unattended or invisible, 3b, or 4 lasers, or intense UV, visible, or ☐ Radio frequency/microwaves sources > 3 kHz ☐ Emission to atmosphere ☐ Other radiation-ioni	gh voltage in a vacuum) r infrared illumination⊟ Electric/ magnetic fields < 3 kHz
	Remediation and Monitoring ☐ Grading or excavating in contaminated areas ☐ Movement/dispos ☐ Other remediation and monitoring	
	Storage Tanks ☐ Wastewater retention tank ☐ Tanks storing materials/products ☐ Other storage	
	Transportation ☐ Hazardous material or waste transportation ☐ Radioactive material or waste transportation ☐ Use of vehicles (aircraft, ATV, boat) ☐ Off-road driving ☐ Other transportation	·
	Waste ☐ Hazardous waste ☐ Radioactive waste (TRU, LLW) ☐ Mixed waste or other waste will waste ☐ Non-Regulated Biological (NRB) ☐ Municipal wastes ☐ Industrial waste ☐ Material for	or recycling Other waste
	Worker Capability/Motion ☐ Lifting manually >30 pounds ☐ Work involving repetitive motion ☐ H☐ Work involving individuals <18 years of age ☐ Work requiring specific unusual physical capabilities	es Other work capability/motion
	Natural Resources ☐ Water Use (in industrial, experimental, process activities) ☐ Electrical Energ paper, plastic, glass, etc.) ☐ Land Use/Land Management ☐ Fossil Fuel consumption ☐ Other ☐ Other ☐ Consumption ☐ ☐ Other ☐ Other ☐ Other ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	y Use [©] Nonhazardous Material use (metal stock, ner
	Other Hazards and Environmental Aspects Other Hazards and Environmental Aspects	
Haza	ard Description and Controls: Describe each hazard listed above and the specific controls: (engineer	ed controls, personal protective equipment, etc. State if
Haz	Chemical Hygiene, etc.) card Description Control	
Tra Nan	aining: List the required training and the individual requiring the training by name ne Employee # Course#	
	PART IV SITE LOCATION/DIRECTORATE ADD	OITIONS
Site	e Location/Directorate-Specific Additions: Site location (e.g., S-300, NTS, off-site) or Dir	rectorate-specific additions can be added here.
	PART V ES&H DOCUMENTS/PERMITS/APPROVALS MEDIC	CAL SURVEILLANCE
ES8	RH Documents / Permits / Approvals / Medical Surveillance: The following controls are	required:
	ES&H Documents needed: ☐ IWS only-(WAL B) ☐ IWS & Safety Plan- (IWS/SP-WAL	C) C Other ES&H Documents:
	LLNL Work Permits/Approvals:	
	Agency Work Permits/Approvals:	
	Medical Surveillance/Certification:	
	Part VI Signatures	
As t	the RI, I have reviewed the hazards and agree to implement the controls identified in this IV	WS:
Res	sponsible Individual (RI):	Date:
The	proposed work falls within the safety envelope of the facility/area and may commence onc	ce authorized:
FPC	OC Concurrence	Date:
FPC	OC Concurrence (if required)	Date:
	eve reviewed the hazards and controls for this work and concur that the work may commend	
Site	e Location/Directorate Specific Concurrence (if required)	Date:
	e hazards and controls have been properly identified and the work may commence once au currence is required for WAL B; ES&H Team concurrence is required for WAL C.)	nthorized (Note: ES&H Team or designee
ES8	&H Concurrence: Title:	Date:
App	proval: The controls have been confirmed and this proposed activity is authorized to proce	ed.
Aut	horizing Individual (AI)	Date:

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Integration Work Sheet (IWS)

To be completed by the ES&H Team or their Designee or the RI (Transfer information on the checked items to Part V of the IWS form)

WS only needed (WAL B. ES&H Team or designee concurrence required) WS & Safety Plan (IWS/SP) needed (WAL C - ES&H Team concurrence required) Other ES&H Documents needed: Safety Basis document update needed (e.g., USO or other) Engineeing safety note needed Job Hazard Analysis needed (JRA) Other
IWS & Safety Plan (IWS/SP) needed (WAL C - ES&H Team concurrence required) Other ES&H Documents needed: Safety Basis document update needed (e.g., USQ or other) Engineering safety note needed NEPA document needed IMA Other Albach required documentation or list where the documents can be found.
Other ES&H Documents needed: Safety Basis document needed (e.g., USQ or other) Engineering safety note needed (e.g., USQ or other) Engineering safety note needed (UHA) Other Attach required documentation or list where the documents can be found: Attach required documentation or list where the documents can be found: Building and/or equipment drain Interior concrete floor, wall, and ceiling penetration Asbestos permit Confined space permit Hot work Hazardous work permit (ES&H Manual Doc. 17.1 Sec. 3.18) Lead work Radation work permit (ES&H Manual Doc. 17.1 Sec. 3.18) Lead work Radation work permit (BS&H Manual Doc. 17.1 Sec. 3.18) Combined space lead to the standard of the
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☐ Other:
Medical Surveillance/Certification:
☐ Asbestos worker
☐ Asbestos worker
☐ Asbestos worker
☐ Beryllium associated worker-1 (potential exposure 10 days or more/year)
☐ Beryllium associated worker-2 (potential exposure less than 10 days/year)
☐ Future Beryllium associated worker (no current exposure, but potential future exposure)
☐ Works with Biohazards
☐ Works with Carcinogens
☐ Hazardous Waste worker ☐ Hearing Conservation required
☐ Lead handler
☐ Commercial Drivers License required
☐ Crane Operator
☐ Explosives worker
☐ Firefighter
Laser Eye exposure potential
☐ Respirator required
□ PAP □ PSAP □ PSO
☐ Other:

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